



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437,580	11/09/1999	ALEXANDER G. MACINNIS	36101/SAH/B6	8182

7590 01/11/2002

ART HASAN
CHRISTIE PARKER & HALE LLP
P O BOX 7068
PASADENA, CA 911097068

EXAMINER

NGUYEN, KEVIN M

ART UNIT	PAPER NUMBER
----------	--------------

2674

DATE MAILED: 01/11/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/437,580

Applicant(s)

MACINNIS ET AL.

Examiner

Kevin M. Nguyen

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: ____

DETAILED ACTION

1. The previous Office action is withdrawn in view of the newly discovered reference(s) to Tateyama. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Tateyama (US 5,515,077).

4. As to claim 1, Tateyama teaches the method of horizontally scrolling a display window to the left comprising the steps of blanking out four bit color data (10, 10) (see Fig. 24 D) in one horizontal display period (Fig. 24 A, col. 8, lines 3-24), image is scrolled by one dots to the left (horizontal scroll +1) (Fig. 24E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26).

5. As to claims 2 and 4, Tateyama teaches the image is scrolled by two dots to the left (horizontal scroll +2), and a color vector (Y2 Y3 U1 V1,... Yn-2 Yn-1 Um Vm, Z) is read, where $m=(n-1)/2$ (see col. 7, lines 38-41).

6. As to claim 3, Tateyama teaches blanking out four-bit color data (10, 10) (see Fig. 24 D).

Art Unit: 2674

7. As to claim 5, Tateyama teaches the image is scrolled by two dots (pixel) to the left (horizontal scroll +2), and a color vector ($Y_2 Y_3 U_1 V_1, \dots Y_{n-2} Y_{n-1} U_m V_m, Z$) is read, where $m=(n-1)/2$ (see col. 7, lines 38-41), blanking out four bit color data (10, 10) (see Fig. 24 D).
8. As to claim 6, Tateyama teaches the pallet codes are defined by data of 4, 5, 6, and bits for the 16, 32, and 64, 128 color modes (see col. 1, lines 25-28).
9. As to claim 7, Tateyama teaches the method of horizontally scrolling a display window to the right comprising the steps of blanking out four bit color data (10, 10) (see Fig. 25 D) in one horizontal display period (Fig. 25 A, col. 8, lines 3-24), image is scrolled by one dots to the right (horizontal scroll -1) (Fig. 25E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26).
10. As to claims 8 and 10, Tateyama teaches the image is scrolled by two dots to the right (horizontal scroll -2), and a color vector ($Y_2 Y_3 U_1 V_1, \dots Y_{n-2} Y_{n-1} U_m V_m, Z$) is read, where $m=(n-1)/2$ (see col. 7, lines 38-41).
11. As to claim 9, Tateyama teaches blanking out four-bit color data (10, 10) (see Fig. 24 D).
12. As to claim 11, Tateyama teaches the image is scrolled by two dots (pixel) to the right (horizontal scroll -2), and a color vector ($Y_2 Y_3 U_1 V_1, \dots Y_{n-2} Y_{n-1} U_m V_m, Z$) is read, where $m=(n-1)/2$ (see col. 7, lines 38-41), blanking out four bit color data (10, 10) (see Fig. 24 D).

13. As to claim 12, Tateyama teaches the pallet codes are defined by data of 4, 5, 6, and bits for the 16, 32, and 64, 128 color modes (see col. 1, lines 25-28).

14. As to claim 13, Tateyama teaches the graphic display system which includes the a game-software recording medium CD-ROM 100 (raw graphic data), control unit 104 (a display engine) for mainly controlling transmission of image data (see Fig. 9, col. 4, lines 29-33), the control unit 104 has direct memory access (DMA) are supplied through an SCSI interface form CD-ROM 100. Data supplied to the SCSI controller are buffered in the K-RAM (see Fig. 30, col. 9, lines 53-57), blanking out four bit color data (10, 10) (see Fig. 24 D).

15. As to claims 14-18, Tateyama teaches the format for compressed image data in the memory, pallet colors in 16, 32, 64 and 128 color modes are employed to display images. Image data are transmitted for 16 rasters (lines) through a data bus of 8 bits. According to the system, plural color modes may be used for one screen; however, 16 raster data are displayed in a single color mode. In FIG. 31, "A" specifies the type of image data. In the area "A", each of "FFH" and "F8H" represents IDCT compressed data for a natural picture. On the other hand, each of "F3H," "F2H," "F1H" and "F0H" represents image data with a color pallet for an animation picture. "F3H," "F2H," "F1H" and "F0H" represent run-length compressed data of 128, 64, 32 and 16 colors, respectively. "B," "C" and "D" represent the first and last halves of bytes of a compressed data region and data for two byte boundary of compressed data, respectively (see col. 10, lines 18-34).

Conclusion

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-FRI from 9:00-5:00 with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Application/Control Number: 09/437,580

Page 6

Art Unit: 2674

Kevin M. Nguyen
Examiner
Art Unit 2674

A handwritten signature in black ink, appearing to read 'Richard Hjerpe', is positioned above the printed name.

RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600